

State Wide Equipment Program (SWEP) Bed Mattress & Bed Equipment Assessment Tool Summary Guidelines

PLEASE READ THESE SUMMARY GUIDELINES PRIOR TO COMPLETING THE ASSESSMENT TOOL

Background:

This tool has been developed to provide a clinical reasoning pathway in the prescription of beds, mattresses and bed equipment for individuals, living with a disability, in the community. It has been developed by State-wide Equipment Program (SWEP) Clinical Advisors and Rehabilitation Engineer.

This tool was developed following review and analysis of the most up to date standards and requirements, for beds, mattresses and bed equipment.

The international standard (or equivalent) for Electrically and Manually Operated Beds for Adult Use (**IEC 60601-2-52:2009** and **Amendment 1:2015**) has been adopted as the basis for adult bed and mattress prescription.

No equivalent standards exist for children's bed prescription.

The *Nordic Requirement Specification, Adjustable beds for disabled children - requirements and test methods ver. 19.06.01* provides guidance on beds for children under the age of 12 years who can fit on a mattress platform between 1200 - 1800 mm. This document provides sound guidelines on which to base decisions for acceptance of beds suitable for use by children. SWEP has selected this requirement for determining the suitability of paediatric beds it will purchase and provide to paediatric clients in Victoria.

While the Nordic Requirement Specification states it "does not apply to adjustable beds for disabled persons over 12 years" an age cut-off is not useful in view of dimensions and weight characteristics of some people with a disability for whom an adult bed may not be desirable. It is appropriate to consider a size limit on a paediatric bed and the current definition of an Adult in IEC 60601-2-52:2009/AMD 1:2015 clause 201.3.219 is suitable "PATIENT having a physical size equal to or more than 146 cm, a mass equal to or more than 40 kg and a body mass index (BMI) equal to or more than 17."

The Victoria Scope Bed System tool (2013) and the South Australian Department of Communities and Social Inclusion, Domiciliary Equipment Services (DES) Bed, Mattress and Bed Equipment Assessment tools (2015) formed the basis of this Bed, Mattress and Bed Equipment Assessment tool.

Aims:

- To provide a clinical pathway, targeting specific areas for Bed, Mattress and bed equipment assessments.
- To detail specifications in the script, providing supporting evidence, and clear clinical reasoning for each feature of the script.
- To use each section as a standalone guide for assessment if required.
- To gather data for SWEP and National Disability Insurance Scheme (NDIS) bed, mattress, and bed equipment applications.

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What this tool offers the clinician:

A comprehensive Bed, Mattress and Bed Equipment Assessment tool- comprising 5 Sections and 5 Appendices.

Section 1	<p>Information Gathering</p> <ul style="list-style-type: none"> - person's current state/ concerns, medical history, pressure injury history, cognitive status, behaviours of concern, bed mobility, transfers, routines, current equipment.
Section 2	<p>Assessing the risk of Entrapment</p> <ul style="list-style-type: none"> - Identifies those at low to very high risk, this will highlight the risk of entrapment and those needing further assessment <p>This information is required for a SWEP Application in the SWEP Prescription Form for Beds Pressure Care</p>
Section 3	<p>Goals and Interventions Considered</p> <ul style="list-style-type: none"> - Identified from the perspective of the person / carer and clinician.
Section 4	<p>Recommendations</p> <ul style="list-style-type: none"> - Provides a detailed script for the bed , mattress and bed accessories
Section 5	<p>New Bed set up summary of training, information delivered and sign off</p>
Appendix 1	<p>Identification of Bed and Mattress Critical Entrapment and Falls Areas</p> <p>The Measurement of Critical Entrapment and Falls Areas is not a replacement of the Cone Test a requirement/recommendation of</p> <ul style="list-style-type: none"> - IEC 60601-2-52:2009 for Adult beds and mattress <p>Therapist needs to confirm if the Cone Test (for adults) has been completed on the bed and mattress combination being requested.</p> <p>The Measurement of Critical Entrapment and Falls Areas provides measurements for</p> <ul style="list-style-type: none"> - 7 zones of bed entrapment critical areas and bedrail height - Considerations of bedrail height in relation to Child, small adult and Adult.
Appendix 2	<p>Pressure Redistribution Support Surfaces</p> <ul style="list-style-type: none"> - Product specification checklist can be used to compare relevant mattress specifications
Appendix 3	<p>Bedrail fact sheet for users and support person, and Bedrail clinical considerations for prescribers.</p>
Appendix 4	<p>Bed stick fact sheet for users and support persons, and Bed stick clinical considerations for prescribers</p>
Appendix 5	<p>Considerations for those at extremes of the weight range</p> <ul style="list-style-type: none"> - low weight and bariatric/ pressure care considerations

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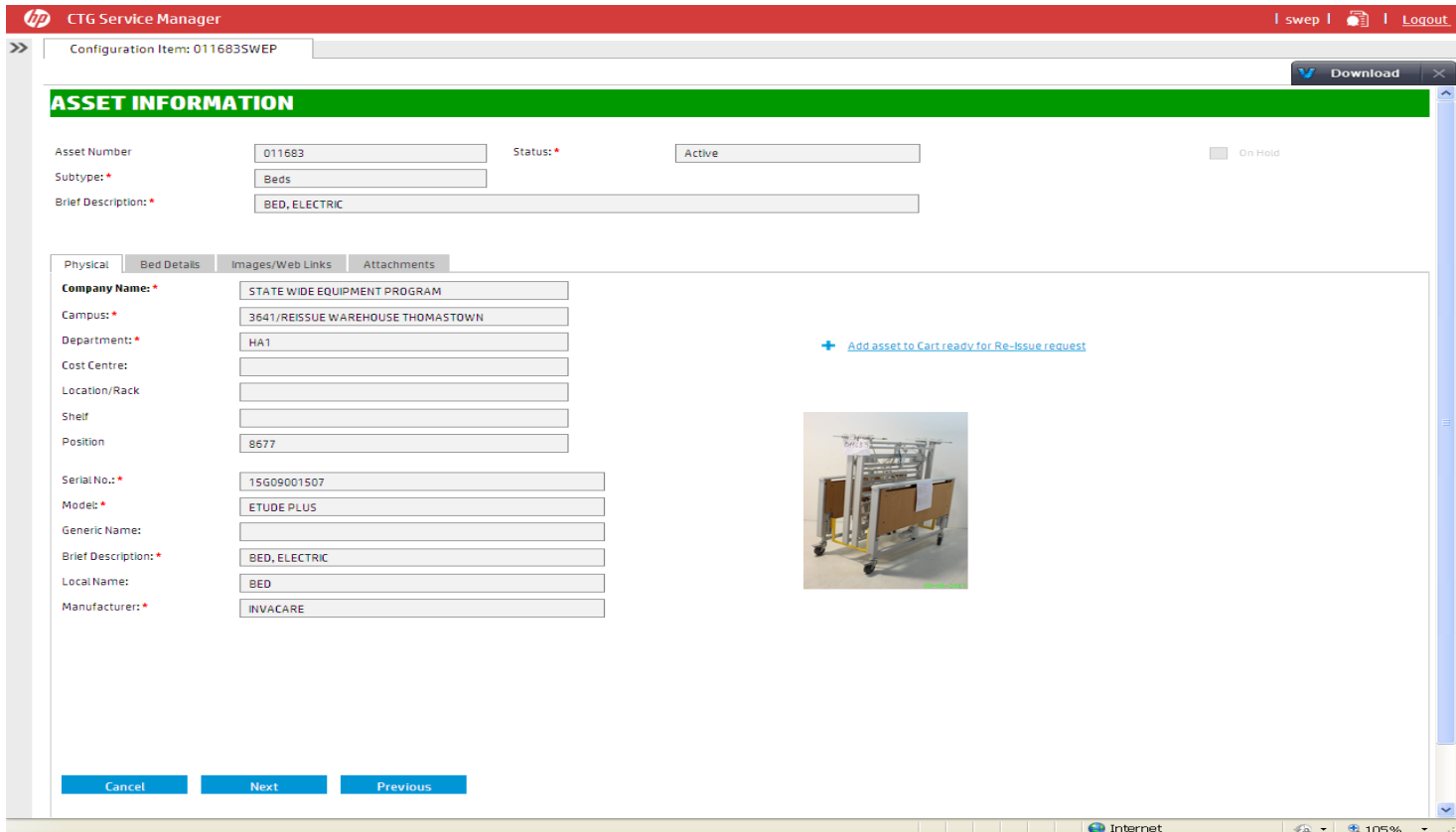
The Bed, Mattress & Bed Equipment prescription process needs to consider:

- The Person and their carer, The Equipment, The Environment: each component needs to be considered separately and then how each impact the other.
- Matching the features of mattress / bed base/ and other bed equipment, to the person's special needs.
- The therapist always needs to consider the individual sizing of the person and the overall risk of entrapment on a specific mattress and bed base assessed together with the person in the bed.
- Pressure injury risk assessment alert.
- Conflicting outcomes from management strategies e.g. pressure redistribution mattresses reduce pressure over bony sites, but also may reduce bed mobility, increasing pressure injury risk, and a softer mattress may increase entrapment risk.
- Minimum and maximum safe working loads (SWL) of beds, mattresses and bed equipment
- Bed and mattress must be assessed together, and checked that the mattress is the correct size for the bed platform.
- It is the therapist's responsibility to check bed and mattress measurements, ensuring correct match between bed platform and mattress.
- Falls or entrapment risks, and document management strategies that minimise falls and entrapment, and facilitate optimal function and safety, for the person and their carer.
- Risk of entrapment should include height / weight and function of person, bed and mattress sizing, highlighting any miss match, and potential for person to slide down into any gaps.
Identify other potential reasons for entrapment:
 - The head and foot end of the bed,
 - The gap between a wall and a bed,
 - 24 hr Positioning devices, soft furnishings,
 - Falling from bed, and during bed transfers
- Consideration of space(size) and the support needed from the mattress to optimise bed mobility
- Carers need (e.g. parents caring for children / adult children caring for parents)
- Manufacturers should be able to provide the recommended mattress size to fit the bed platform. Both Bed and Mattress should have sizes and date of supply/manufacture noted on equipment.
- Check bed manuals for more information on bed, mattress and bed equipment.

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Reissue equipment – Beds, Mattresses and Bed Equipment:

- Chemtronics have a range of beds, mattress and bed equipment available for Reissue. It is recommended where possible that reissue equipment is used.
- When requesting a Reissue Bed through Chemtronics the therapist will see advice of bed dimensions and features.



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Configuration Item: 011683SWEP

ASSET INFORMATION

Asset Number: 011683 Status: Active On Hold

Subtype: Beds

Brief Description: BED, ELECTRIC

Physical | Bed Details | Images/Web Links | Attachments

Company Name: STATE WIDE EQUIPMENT PROGRAM

Campus: 3641/REISSUE WAREHOUSE THOMASTOWN

Department: HA1

Cost Centre:

Location/Rack:

Shelf:

Position: 8677

Serial No.: 15G09001507

Model: ETUDE PLUS

Generic Name:

Brief Description: BED, ELECTRIC

Local Name: BED

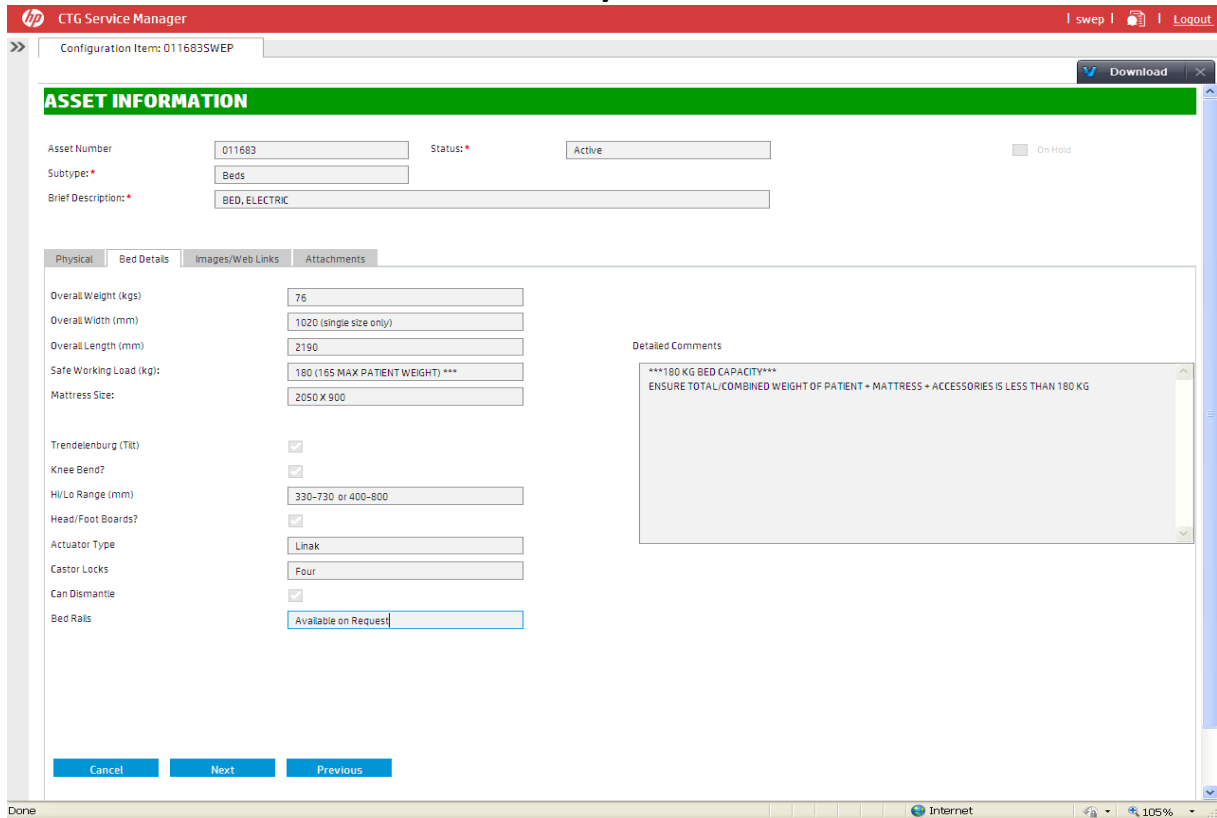
Manufacturer: INVACARE

[+ Add asset to Cart ready for Re-Issue request](#)

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- Chemtronics will also provide advice as to required size for mattress as per screen shot

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Physical | **Bed Details** | Images/Web Links | Attachments

Overall Weight (kgs): 76

Overall Width (mm): 1020 (single size only)

Overall Length (mm): 2190

Safe Working Load (kg): 180 (165 MAX PATIENT WEIGHT) ***

Mattress Size: 2050 X 900

Trendelenburg (Tit):

Knee Bend?:

Hi/Lo Range (mm): 330-730 or 400-800

Head/Foot Boards?:

Actuator Type: Linak

Castor Locks: Four

Can Dismantle:

Bed Rails: Available on Request

Detailed Comments

180 KG BED CAPACITY
ENSURE TOTAL/COMBINED WEIGHT OF PATIENT + MATTRESS + ACCESSORIES IS LESS THAN 180 KG

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- When requesting bedrails or bed sticks these must fit the bed frame they will attach to and advice can be provided by Chemtronics if it is not included in documentation.